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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,705	04/20/2007	Seiichiro Takai	JG-SU-5243/500577.20087	8982
42109 DUANE MORI	7590 03/29/201 RIS LLP - NY	EXAMINER		
PATENT DEPA		CHAUDRY, ATIF H		
1540 BROADWAY NEW YORK, NY 10036-4086			ART UNIT	PAPER NUMBER
			3753	
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			03/29/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/583,705	TAKAI, SEIICHIRO
Office Action Summary	Examiner	Art Unit
	ATIF H. CHAUDRY	3753
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>03 E</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		
 4) Claim(s) 5-10 and 12 is/are pending in the approx 4a) Of the above claim(s) is/are withdra 5) Claim(s) 8-10 and 12 is/are allowed. 6) Claim(s) 5 is/are rejected. 7) Claim(s) 6 and 7 is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 21 June 2006 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	a) accepted or b) objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is objection	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicationity documents have been received tu (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/03/2010 has been entered.

Status of the claims

2. Claim 5 is amended. Currently claims 5-10 and 12 are pending in this application.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takai (6382237) in view of Dorsemaine (5624204).
- 5. Takai (Fig. 1) discloses an underground water storage tank configured to be buried underground and to be capable of storing water such that the underground water storage tank comprises an internal storage sub-tank 11 comprising water bearing materials 12 coated with a first water-impermeable sheet 13, an outer water storage compartment defined by the first sheet 13 and a second water-impermeable sheet 19 and provided by coating second water bearing material 43 disposed around the internal

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water storage sub-tank 11 with the second sheet 19 Takai discloses intake pipes 21, 42 penetrating through the first sheet 13 having non-return valve 31. Takai discloses second bearing materials completely filling the space between the first and second water-impermeable sheets 13, 19 such that second bearing materials will also absorb some of the soil pressure from outside the underground water storage tank but fails to disclose the second bearing materials as plates. Dorsemaine (Fig. 2) teaches a water reservoir comprising expanded-groove plates 12 stacked on one another providing mechanical strength to absorb soil pressure. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have provided the device disclosed by Takai with expanded groove plates as taught by Dorsemaine as art-recognized equivalent substitute water-bearing materials and to provide mechanical strength to absorb soil pressure.

Allowable Subject Matter

- 6. Claims 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Regarding claims 6, the prior art fails to disclose an underground water storage tank comprising: an internal water storage sub-tank provided by coating an assembly of water-bearing materials obtained by combining multiple water-bearing materials with one another with a first water-impermeable sheet; soil pressure absorption plates provided outside the internal water storage sub-tank; and a second water-impermeable sheet for coating the soil pressure absorption plates and wherein vertical pipes coupled

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by coupling pipes are embedded in soil absorption plates and check valves for intake pipes to the internal sub-tank are provided in the vertical pipes.

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- 8. Regarding claim 7, the prior art fails to disclose an underground water storage tank comprising: an internal water storage sub-tank provided by coating an assembly of water-bearing materials obtained by combining multiple water-bearing materials with one another with a first water-impermeable sheet; soil pressure absorption plates provided outside the internal water storage sub-tank; and a second water-impermeable sheet for coating the soil pressure absorption plates; first intake pipes with check valves connecting the two sub-tanks, second intake pipes with check valves for connecting the outer sub-tank to outside the tank assembly having a perforated tube with a plurality of holes.
- 9. Claims 8-10, 12 are allowed.
- 10. Regarding claim 8, the prior art fails to disclose an underground water storage tank comprising: an internal water storage sub-tank provided by coating first water-bearing materials with a first water-impermeable sheet; second water bearing material provided outside the internal water storage sub-tank; and a second water-impermeable sheet for coating the second water bearing material; and a supply pipe having a higher end connected to the lower portion of outer tank such that a lower end of the supply pipe is connected to a management liquid measure for supplying water to the outer storage tank.

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Response to Arguments

Applicant's arguments with respect to claim 5 have been considered but are moot in view of the new ground(s) of rejection. Dorsemaine has been cited to show teaching of soil pressure plates as second water bearing material.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ATIF H. CHAUDRY whose telephone number is (571)270-3768. The examiner can normally be reached on Mon-Fri 8-5 Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Hepperle can be reached on (571)272-4913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Atif H Chaudry/ Examiner, Art Unit 3753 3/23/2011 /John Rivell/ Primary Examiner, Art Unit 3753